

Bridge Culvert Inspection				
Bridge File Number	76058 -1 Bridge Culvert		Form Type	CUL1
Year Built	1966		Lot No.	2
Bridge or Town Name	PEACE RIVER		Inspector Name	Brian Pientsch
Located Over	PATS CREEK, 8.10.55, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2:60 R1 37.867;2:60 L1 37.866		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	BR CLS B
Navigabil. Cl./Year			Inspection Date	19-Dec-2012
Legal Land Location	SW SEC 32 TWP 83 RGE 21 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:17:17, 56:14:19		Data Entry Date	20-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	09-Jan-2013
Clear Roadway/Skew	19.5 /		Dept. Reviewer Name	David Morrison
AADT/Year	5,140 / 2011 (A)		Dept. Review Date	19-Mar-2013
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	5500	4700	RPP	246.3	152X51	6.3,7.1,6.3	PIPE ARCH
Special Features	SHOTCRETE BEAM							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Conduit runs through pipe.	Gas	
Power	X-channel 50m North.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	5	5	5-way intersection, controlled by yield and stop signs. This location by clover leaf overpass into Peace River.
Vertical Alignment	6	6	
Roadway Width (m)	19.500		
Embankment	7	7	East bank.
Sideslope (__:1)	2.0		
(Height of Cover(m) : 4)			
Guardrail (Y/N)	Yes		1 broken post.-27-Jan-2011 Snow covered
Approach Road / Embankment General Rating	5	5	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	4	4	2 wide cracks (15mm). Spalls No Bridge Plaque. large honeycomb holes. (600mm x 100mm) (125mm deep).
Collar	4	4	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		4	4	Vertical and Diag. cracks & spalls. 3mm to 10mm wide. Spall in wall @ 3o'clock, 1m from culvert. 740mm x 180mm x130 - Rebar exposed.
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 450)		7	N	Snow covered
Scour/Erosion		7	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5500, Rise (mm): 4700, Type: RPP)				
Barrel Last Accessible Date	19-Dec-2012			3508 ice to crown
Special Features				
Special Feature (Type : SHOTCRETE BEAM)		4	4	Only 1 rubber mat left. Inlet noprene mat left.
Special Feature (Type :)				Inlet neoprene curtain.
Roof		7	7	Can't measure rise due to conc. floor. No visible defects.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	Shotcrete beam repairs.
Measured Span (mm)	5635			
Measured At Ring No.	76			Ring 67 - span 5625mm
Deflection (mm)	135			Both rings 67 & 76 are rings u/s of areas with shotcrete beams.
Percent Deflection	2			
Floor		3	N	Concrete Floor installed. Rings 32-35 concrete abraision below.First layer of rebar exposed. 2 pieces of rebar sticking up from floor.- 27- Jan-2011
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			Ice covered
Circumferential Seams		5	5	Ring 96 not connected, grouted connection. Ring 74/75 ,75/76 seam 4 nuts missing.
Separation (mm)	0			
Longitudinal Seams		5	5	2 bolts missing at 9 o'clock position on ring 82.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5500, Rise (mm): 4700, Type: RPP)				
Coating		4	4	Some pitting on sidewall above conc. Scaling floor, ring 96.-27-Jan-2011 Alkal:Along roof, bolts and seams.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	Very long culvert.
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	The end of this pipe goes into the Town of Peace River, Pats Creek Pipe.
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		X	X	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	No rating - 5 substituted.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		6	6	
HWM (m below Top of Culvert)	2.5			(28 May 2009) HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2013	Replace guardrail post.-27-Jan-2011					
OTHER ACTION	2013	Repair floor.-27-Jan-2011					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	58.4/57.9	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Could not confirm if two of the repairs were completed due to snow/ice. Monitor cracks and spalls on headwall and wings. Consider replacing missing bridge plaque.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	19-Sep-2014		Previous Inspection Date	27-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							